

BUILDING CODE COMPLIANCE OFFICE (BCCO) PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA METRO-DADE FLAGLER BUILDING

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www.buildingcodeonline.com

NOTICE OF ACCEPTANCE (NOA)

Entegra Sales, Inc. 819 N. Federal Highway, Suite 300 Stuart, FL. 34994

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Valencia Spanish "S" Concrete Roof Tile

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This replaces NOA # 06-0310.07 and consists of pages 1 through 6 The submitted documentation was reviewed by Alex Tigera.



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ROOFING ASSEMBLY APPROVAL

Category:

Roofing

Sub Category:

Roofing Tiles

Material:

Concrete

1. SCOPE

This revises a roofing system using Entegra Valencia Spanish "S" Concrete Roof Tile, as manufactured Entegra Roof Tile Corporation described in Section 2 of this Notice of Acceptance, designed to comply with the Florida Building Code, 2004 Edition for High Velocity Hurricane Zone. For the locations where the pressure requirements, as determined by applicable Building Code, does not exceed the design pressure values obtain by calculations in compliance with RAS 127 using the values listed in section 4 herein. The attachment calculations shall be done as a moment based system.

2. PRODUCT DESCRIPTION

Manufactured by Applicant	<u>Dimensions</u>	Test Specifications	Product <u>Description</u>
Valencia Spanish "S"	1 = 18" w = 10 \(^1\lambda''\) min. \(^3\lambda''\) thick	TAS 112	High profile, interlocking, one-piece, "S" shaped, concrete roof tile equipped with two nail holes. For direct deck nail-on, mortar set or adhesive set applications.
Trim Pieces	1 = varies w = varies varying thickness	TAS 112	Accessory trim, concrete roof pieces for use at hips, rakes, ridges and valley terminations. Manufactured for each tile profile.

2.1 Components or products manufactured by others

Product	Dimensions	Test Specifications	Product <u>Description</u>	<u>Manufacturer</u>
Rainproof II	30" x 75' roll 36" x 75' roll or 60" x 75' roll	TAS 104	Single ply, nail-on underlayment with 2" self-adhering top edge.	Protect-O-Wrap, Inc. (with current NOA)
Ice and Water Shield	36" x 75' roll	TAS 103	Self-adhering underlayment	W.R. Grace Co. (with current NOA
Tile Nails	Min. 10dx 3"	TAS 114 Appendix E	Corrosion resistant screw or smooth shank nails	generic
Tile Screws	#8x 2 ½" long 0.335" head dia. 0.131" shank dia. 0.175" screw thread dia.	TAS 114 Appendix E	Corrosion resistant, coated, square drive, galvanized, coarse thread wood screws	generic



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<u>Product</u>	Dimensions	Test <u>Specifications</u>	Product <u>Description</u>	<u>Manufacturer</u>
Roof Tile Mortar ("TileTite TM ")	N/A	TAS 123	Prepared mortar mix designed for mortar set roof tile applications.	Bermuda Roof Company, Inc. with current PCA
Roof Tile Mortar ("Quikrete® Roof Tile Mortar #1140")	N/A	TAS 123	Prepared mortar mix designed for mortar set roof tile applications.	Quikrete Construction Products with Current PCA
Roof Tile Mortar ("BONSAL® Roof Tile Mortar Mix")	N/A	TAS 123	Prepared mortar mix designed for mortar set roof tile applications.	W. R. Bonsal Co. with current PCA
Roof Tile Adhesive ("Polypro® AH160")	N/A	See PCA	Two component polyurethane adhesive designed for adhesive set roof tile applications.	Polyfoam Products, Inc.
Roof Tile Adhesive TileBond	Factory premixed canisters	See PCA	Single component polyurethane foam roof tile adhesive	Flexible Products (with current NOA)
Hurricane Clip & Fasteners	Clips Min. ½" width Min. 0.060" thick Clip Fasteners Min. 8d x 1 ¼"	TAS 114 Appendix E	Corrosion resistant clips with corrosion resistant nails.	Generic

3. LIMITATIONS

- 3.1 Fire classification is not part of this acceptance.
- For mortar or adhesive set tile applications, a static field uplift test shall be performed in accordance with RAS 106.
- 3.3 Applicant shall retain the services of a Miami-Dade County Certified Laboratory to perform quarterly test in accordance with TAS 112, appendix 'A'. Such testing shall be submitted to the Building Code Compliance Office for review.
- 3.4 Minimum underlayments shall be in compliance with the applicable Roofing Applications Standards listed section 4.1 herein.
- 3.5 30/90 hot mopped underlayment applications may be installed perpendicular to the roof slope unless stated otherwise by the underlayment material manufacturers published literature.
- 3.6 This acceptance is for wood deck applications. Minimum deck requirements shall be in compliance with applicable Building Code.

4. INSTALLATION

4.1.1 Entegra Valencia Spanish "S" Concrete Roof Tile and its components shall be installed in strict compliance with Miami Dade County Roofing Application Standard RAS 118, RAS 119, and RAS 120.



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4.2 Data For Attachment Calculations

Table 1: Average Weight (W) and Dimensions (I x w)				
Tile Profile Weight-W (lbf) Length-I (ft) Width-w (ft)				
Valencia Spanish "S" Tile	11.1	1.5	.854	

Table 2: Aerodynamic Multipliers - λ (ft³)					
Tile Profile	λ (ft³) Batten Application	λ (ft³) Direct Deck Application			
Valencia Spanish "S" Tile	0.232	0.252			

Table 3: Restoring Moments due to Gravity - Mg (ft-lbf)										
Tile Profile	3"	:12"	4":	12"	5":	12"	6":	12"	7":12 gre	2" or ater
Valencia	Batte	Direct	Battens	Direct	Battens	Direct	Batten	Direct	Batten	Direct
Spanish "S" Tile	ns	Deck		Deck		Deck	S	Deck	S	Deck
	6.70	7.10	6.60	7.00	6.46	6.84	6.30	6.67	4.08	N/A

Tile Profile	Fastener Type	Direct Deck (min 15/32" plywood)	Direct Deck (min. 19/32" plywood)	Battens
Valencia	2-10d Ring Shank Nails	28.6	41.2	19.4
Spanish "S" Tile	1-10d Smooth or Screw Shank Nail	5.1	6.8	2.8
1.1.5	2-10d Smooth or Screw Shank Nails	6.9	9.2	7.3
	1 #8 Screw	20.7	20.7	18.1
	2 #8 Screw	43.2	43.2	29.8
	1-10d Smooth or Screw Shank Nail (Field Clip)	23.1	23.1	19.0
	1-10d Smooth or Screw Shank Nail (Eave Clip)	29.3	29.3	24.0
	2-10d Smooth or Screw Shank Nails (Field Clip)	27.6	27.6	38.6
	2-10d Smooth or Screw Shank Nails (Eave Clip)	38.1	38.1	41.8
	2-10d Ring Shank Nails ¹	33.1	48.1	



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Table 5: Attachment Resistance Expressed as a Moment M _f (ft-lbf) for Two Patty Adhesive Set Systems					
Tile Tile Application Minimum Attachment Resi					
Valencia Spanish "S" Tile	Adhesive	29.3 ³			
2 See manufactures component approval for installation requirements.					
Flexible Products Company TileBond Average weight per patty 13.9 grams. Polyfoam Product, Inc. Average weight per patty 8 grams.					

Table 5A: Attachment Resistance Expressed as a Moment - M _f (ft-lbf) for Single Patty Adhesive Set Systems				
Tile Tile Application Minimum Attachme Profile Resistance				
Valencia Spanish "S" Tile	Polyfoam PolyPro™	66.5 ⁴		
	Polyfoam PolyPro™	38.75		
4 Large paddy placement of 45 grams	s of PolyPro™.			
5 Medium paddy placement of 24 gra	ms of PolyPro™.			

Table 5B: Attachment Resistance Expressed as a Moment - M _f (ft-lbf) for Mortar or Adhesive Set Systems			
Tile Tile Application Minimum Attachme Profile Resistance			
Valencia Spanish "S" Tile	Mortar Set	24.5	

5. LABELING

All tiles shall bear the imprint or identifiable marking of the manufacturer's name or logo, or following statement: "Miami-Dade County Product Control Approved".

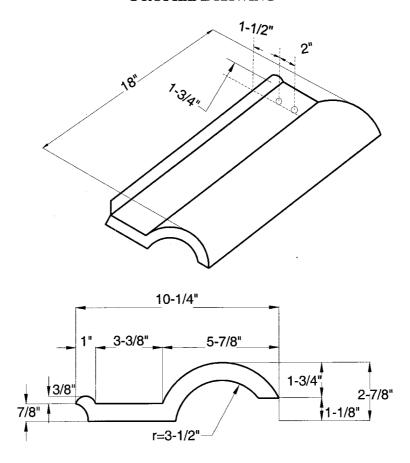
6. BUILDING PERMIT REQUIREMENTS

- **6.1** Application for building permit shall be accompanied by copies of the following:
 - **6.1.1** This Notice of Acceptance.
 - **6.1.2** Any other documents required by the Building Official or applicable Building Code in order to properly evaluate the installation of this system.



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PROFILE DRAWING



ENTEGRA VALENCIA SPANISH "S" CONCRETE ROOF TILE
END OF THIS ACCEPTANCE



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